## Patent claims

- 1. A thin-walled rolling bearing, such as a needle bearing, produced without removal of material, the outer rings of which bearing are produced from a cold-rolled strip, characterized in that the outer rings are produced from a cold-formable, fully hardenable steel, a ratio of from 1:20 to 1:5 being set between their wall thickness and the diameter of the bearing needles, and the fully hardened wall having a core hardness of  $\geq$  600 HV and a surface hardness of  $\geq$  680 HV.
- 2. The rolling bearing as claimed in claim 1, 15 characterized in that the core hardness is from 600-650 HV and the surface hardness is from 680-750 HV.
- The rolling bearing as claimed in claim 1, characterized in that a heat-treatment steel with the
  following chemical composition is used:

	0.37 -	0.50	&	C	up	to	0.50	&	Cr
	up to	0.40	&	Si	up	to	0.40	&	Ni
	0.50 -	0.80	&	Mn	up	to	0.10	&	Мо
25	up to	0.020	&	P	up	to	0.20	&	Cu
	up to	0.020	&	S					

4. A universal joint bush (8) for receiving a bearing pin which is mounted in rolling bearing form and is 30 formed from a cold strip as a thin-walled needle bearing bush which is produced without the removal of material and the closed base of which is used for a universal joint pin to bear against at the end side, characterized in that it is produced from a cold-35 formable, fully hardenable steel, the fully hardened wall having a core hardness of ≥ 600 HV and a surface hardness of ≥ 680 HV.

5. The universal joint bush (8) as claimed in claim 4, characterized in that the core hardness is from  $600 - 650 \; \text{HV}$  and the surface hardness is from  $680 - 750 \; \text{HV}$ .

5

6. The universal joint bush (8) as claimed in claim 4, characterized in that a heat-treatment steel with the following chemical composition is used:

10	0.37 -	0.50	&	C	up	ţo	0.50	&	Cr
	up to	0.40	&	Si	up	to	0.40	&	Ni
	0.50 -	0.80	ક્ષ	Mn	up	to	0.10	૪	Мо
	up to	0.020	&	P	uр	to	0.20	&	Cu
	up to	0.020	&	S					